SOW – CIVIL & PUMP ROOMS REPAIR WORKS AT USGR AUG 2016

A. WALKWAY/ PAVING REPAIR WORKS AT USGR

The pathways in the following USGRs are settling down at many places causing uneven flooring to walk and water stagnates.

Below detailed scope of work for the pathway repair works.

1. Remove the existing earth and prepare the surface and construct necessary curb walls.
2. Provide a layer of sand for 2" on the existing base.
3. Consolidate the earth using ramming machine
4. Provide 3" thick PCC in the ratio of 1:4:8 with proper sized blue metal
5. Supply and fix 50mm thick paver blocks to the entire area.
6. Level the floor using ramming machine.
7. 2 Nos. of trenches in parallel to be constructed at the designated places for future plumbing and electrical pipe lines. Total Length -

   Trench width – 18" each and 9" height with necessary base, 9" BW and cover slab

Total areas:

1. Rohini – 4000 sft.
2. CGR – 1500 sft.

Note: Vendor has to take necessary measurements at site.

B. SOW – PUMP ROOMS REPAIR AND EXTENSION WORKS AT USGR AUG-2016

I. CGR - Pump room size 9'9" x 18'0" x 8'6" Ht.

1. Removal of existing 6" wide brick wall on one side of the existing pump room.
2. Provide a plinth beam of 9" x 9" around the area to the length of 20' on top of the existing water tank. The construct 9" Brick wall all around for a height of 8'6".
3. Provide 5" R.C.C. slab on top of the pump room with 1-1/2' projection as sunshade on grill gate side. Use M20 grade concrete and 12mm and 10mm TMT bars with 5" c/c with necessary lintels.
4. Do the necessary weathering coarse for the roof area and finish with red tiles.

5. Plaster the entire area of wall and ceiling both inside and outside with 1:3 rich cement mortar.
6. Inside pump room finish the floor with 3" sand filling, 3" PCC and plastering. Provide necessary base foundation for the pump and tank.
7. Paint the entire area with one coat of primer and two coats of weather coat paint. Paint the grill gate with one coat of metal primer and two coats of enamel. Make – Asian.
8. Paint the entire floor area with one coat of primer and two coats of epoxy paint Make-MRF.
9. Install the supplied pressure pump with tank at the designated position. The suction line shall be 32mm and delivery line shall be 25mm Schedule 80 uPVC pipe. Make: Flow guard/Finolex.
10. Supply and install 2 nos. of 25mm check valve (Leader/equivalent), 3 no's of 25mm NRV (Leader/equivalent), and 6 no's of 1" ball valve (Leader/equivalent).
11. Connect the two pressure pumps with two sand filters and then connect it to the main lines of the residential units.
12. Supply and install water level controller switch for the two pumps for safety pump operations for low water level and dry run.
13. Run the 25mm delivery pipe from the pump room to the main distribution line and connect it.
14. Supply and install one no. of 4way three phase DB with one no. of 40amps 4 pole MCB, 2nos of 20amps DP mcb and two no. of 10amps SP mcb. Supply and install two no's of 16amps power point and one no. of 5mle switch board with 3 nos of 5amps switch and one 5amps socket for room lighting point. Breaker and DB shall be MDS legrand make and switch and sockets are MK India. Supply and install two nos. of 4' LED light, Philips LINEA.
15. Remove all debris from the site.

II. KUMARAGURU - Pump room size 11'6" x 9' x 8'6" Ht.

1. Removal of existing cracked / worn-out brick walls of the existing pump room.
2. Provide a plinth beam of 9" x 9" around the area to the length of 20' on top of the existing water tank. The construct 9" Brick wall all around for a height of 8'6".
3. Provide 5" R.C.C. slab on top of the pump room with 1-1/2' projection as sunshade on grill gate side. Use M20 grade concrete and 12mm and 10mm TMT bars with 5" c/c with necessary lintels.
4. Do the necessary weathering coarse for the roof area and finish with red tiles.
5. Plaster the entire area of wall and ceiling both inside and outside with 1:3 rich cement mortar.
6. Inside pump room finish the floor with 3" sand filling, 3" PCC and plastering. Provide necessary base foundation for the pump and tank.

7. Paint the entire area with one coat of primer and two coats of weather coat paint. Paint the grill gate with one coat of metal primer and two coats of enamel. Make – Asian.
8. Paint the entire floor area with one coat of primer and two coats of epoxy paint Make-MRF.
9. Install the supplied pressure pump with tank at the designated position. The suction line shall be 32mm and delivery line shall be 25mm Schedule 80 uPVC pipe. Make: Flow guard/Finolex.
10. Supply and install 1 nos. of 25mm check valve (Leader/equivalent), 3 no's of 25mm NRV (Leader/equivalent), and 6 no's of 1" ball valve (Leader/equivalent).
11. Connect the two pressure pumps with two sand filters and then connect it to the main lines of the residential units.
12. Supply and install water level controller switch for the two pumps for safety pump operations for low water level and dry run.
13. Run the 25mm delivery pipe from the pump room to the main distribution line and connect it.
14. Supply and install one no. of 4way three phase DB with one no. of 40amps 4 pole MCB, 2nos of 20amps DP mcb and two no. of 10amps SP mcb. Supply and install two no's of 16amps power point and one no. of 5mle switch board with 3 nos of 5amps switch and one 5amps socket for room lighting point. Breaker and DB shall be MDS legrand make and switch and sockets are MK India. Supply and install two nos. of 4' LED light, Philips LINEA.
15. Remove all debris from the site.

III. <u>LINCOLN - Pump room size 13'6" x 7' x 8'6" Ht.</u>

1. Remove worn-out existing ceiling of the pump room.
2. Provide a lentil beam of 9" x 9" around the area. The final finished height of the room to be 8'6".
3. Provide 5" R.C.C. slab on top of the pump room with 1-1/2' projection as sunshade on grill gate side. Use M20 grade concrete and 12mm and 10mm TMT bars with 5" c/c with necessary lintels.
4. Do the necessary weathering coarse for the roof area and finish with red tiles.
5. Plaster the entire area of wall and ceiling both inside and outside with 1:3 rich cement mortar.
6. Paint the entire area with one coat of primer and two coats of weather coat paint. Paint the grill gate with one coat of metal primer and two coats of enamel. Make – Asian.
7. Paint the entire floor area with one coat of primer and two coats of epoxy paint Make-MRF.

8. Removal & refixing of pressure pump with tank at the designated position. The suction line shall be 32mm and delivery line shall be 25mm Schedule 80 uPVC pipe. Make: Flow guard/Finolex.
9. Supply and install 2 nos. of 25mm check valve (Leader/equivalent), 3 no's of 25mm NRV (Leader/equivalent), and 6 no's of 1" ball valve (Leader/equivalent).
10. Connect the two pressure pumps with two sand filters and then connect it to the main lines of the residential units.
11. Supply and install water level controller switch for the two pumps for safety pump operations for low water level and dry run.
12. Run the 25mm delivery pipe from the pump room to the main distribution line and connect it.
13. Supply and install one no. of 4way three phase DB with one no. of 40amps 4 pole MCB, 2nos of 20amps DP mcb and two no. of 10amps SP mcb. Supply and install two no's of 16amps power point and one no. of 5mle switch board with 3 nos of 5amps switch and one 5amps socket for room lighting point. Breaker and DB shall be MDS legrand make and switch and sockets are MK India. Supply and install two nos. of 4' LED light, Philips LINEA.
14. Remove all debris from the site.

Note: Vendor has to take necessary measurements at site.